

MicroPatent Report

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ELECTRIC-DRIVEN MEDICAL IMPLEMENT



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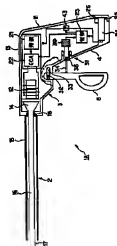
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[57] Abstract:

PROBLEM TO BE SOLVED: To provide an electric-driven medical implement allowing an operator to adjust the treatment output of the treatment part speedily and easily and to smoothly perform a delicate operation or an operation requiring accuracy. SOLUTION: This ultrasonic treatment implement 1A has an operating lever 5 in an operating part 3 at the rear end of an inserting part 2 to be inserted into the body cavity. The operating lever 5 is movably operated by fingers of an operator grasping the lever. According to the quantity of the operating force of the lever 5, outputs of plural piezoelectric elements of a piezoelectric switch 39 which constitutes an output adjusting mechanism 31 change, and the outputs are detected by a control circuit 23 to variably set a gain of the GCA 22 in a resonator driving part 13. An ultrasonic driving signal having passed the GCA 22 is applied to an ultrasonic resonator 12 to generate ultrasonic vibrations. The ultrasonic vibrations, passing an ultrasonic transmitting rod 16, are transmitted to a treatment part 17 at the top of the rod 16, so that the ultrasonic treatment output to be outputted to a patient, etc., from the treatment part 17 can be adjusted according to the quantity of the movable operation of the operating lever 5. COPYRIGHT: (C)2000,JPO&Japio

[52] US Class:

[51] Int'l Class: A61B000100 A61B001800

[52] ECLA: